

DEVAL L. PATRICK GOVERNOR

TIMOTHY P. MURRAY LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD SECRETARY

JOHN AUERBACH COMMISSIONER

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health

William A. Hinton State Laboratory Institute 305 South Street, Jamaica Plain, MA 02130

11/18/2011

Erik Bennett Assistant District Attorney, Suffolk County

Dear ADA Bennett,

Enclosed is the information you requested in regards to Commonwealth vs. Included are copies of the following:

- 1. Curriculum Vitae for Annie Dookhan and Della Saunders.
- 2. Drug Analysis Laboratory Receipt.
- Control Cards with analytical results for samples #
- 4. Analysis sheets with custodial chemist's hand notations and test results.
- 5. GC/Mass Spectral analytical data for samples #

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Della Saunders was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely

Annie Dookhan

Chemist

Drug Analysis Lab

Jamaica Plain, MA. 02130

(617) 983-6622

#### Curriculum Vitae

### Annie Khan (Dookhan)

#### **Education:**

University of Massachusetts, Boston, Ma, Master of Science in Chemistry. University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

### Experience:

2003 - present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- \*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- \*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.
- \*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- \*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- \*Maintenance and repairs of all analytical instruments.
- \*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- \* Responsible for the Quality Control/Quality Assurance program for the drug lab.
- \*Notary Public.
- \*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 - 2003

OC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- \*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.
- \*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- \*Writing, revising and reviewing Standard Operating Procedures (SOPs).
- \*Trained and supervised new chemists and interns for the department.
- \*Routine QC testing of products for the FDA.
- \*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- \*Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- \*Complete testing of chemicals for Vendor Validation Project for the FDA.
- \*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### **Additional Training:**

Dept. of Justice - Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

#### Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

### Curriculum Vitae

### Della Saunders

### Education:

Boston University Boston, MA. Bachelors of Arts in Chemistry 1982

## Experience:

1985-present: Currently Chemist III Massachusetts Department of Public Health Drug Analysis Laboratory at State Laboratory Institute Boston, MA. Responsible for analyzing unknown substances submitted by Massachusetts law enforcement agencies; operating, maintaining, and interpreting data from analytical equipment (analytical balance, microscope, gas chromatogram, ultraviolet spectrometer, infrared spectrometer, gas chromatogram/mass spectrometer); training junior level chemists; providing expert testimony to local, state, and federal courts in the Commonwealth of Massachusetts.

1984-1985: Laboratory Technician in the Media Laboratory at State Laboratory Institute Boston, MA. Responsible for making chemical reagents and media plates; operating and maintaining laboratory equipment (autoclave, pH meter, ultra-violet hood), and collecting safety data for laboratory protocols.

## Training:

1985: Six week training with Senior Staff at Massachusetts Department of Public Health (MDPH) Drug Analysis Laboratory Boston, MA. Appointed Assistant Analyst MDPH

1987: One week training course in drug analysis given by the Federal Drug Enforcement Agency (DEA) McLean, VA.

1992: Training in Gas Chromatograph/Mass Spectroscopy (GC/MS) Hewlett Packard (Agilent)

1996: Training in Fourier Transform Infra-Red Spectroscopy ETA (Analect)

2001: Expert Witness Workshop National Laboratory Training network Quality Assurance/Quality Control Training (MDPH)

2002: Techniques of Supervision Training (MDPH)

1999: Notary Public Commonwealth of Massachusetts



CC#		
воок#	31	
PAGE #	21	
1 2200 6- 11 "		

DRUG RECEIPT		PAGE # 2-1				
	DES	DESTRUCTION #				
District/Unit DCV A	$\overline{}$					
Name & Rank of Arresting Officer	FOHTAN	2	ID#_928	<u> </u>		
DEFENDANT'S NAME	ADI	DRESS	CITY	STATE		
			Parony	M		
			Lynn	MA		
			<b>T</b>	SE ONLY		
DESCRIPTION OF ITEMS SUBMITTE	ED	GROSS QUANTITY	GROSS WEIGHT	ANALYSIS NUMBER		
Courins		2 8/8"	2,24			
Green round fills (Clorez	epan]	14 pill	4,430			
(1 11	1 '	4 pills	2.54			
1 Hopo- Needle containin	ig Heringesia	tu E				
<b>/</b> *	)					
			,			
			. 9			
		7				
To be completed by ECU personnel on			C			
Name and Rank of Submitting Officer	June Od 1 2	T45	ID#	- h 11		
Received by	LlO_		Date $3-6$	23-4		
			ECU Control #	120-140-140-140-140-140-140-140-140-140-14		

Date Analyzed: MAY 2 6 2011 City: Boston D.C.U. Police Dept. Officer: P.O. Diana Lopez Def: Subst: SUB Amount: No. Cont: 2 Cont: pb No. Analyzed: \ Date Rec'd: 03/23/2011 Net Weight: 6.0つ 2.24 Gross Wt.: # Tests: 6ASD Prelim: Cocade Findings: COCAINE Date Analyzed: MAY 2 6 2011 City: Boston D.C.U. Police Dept. Officer: P.O. Diana Lopez Def: Amount: 16.0 Subst: TAB No. Cont: 1 Cont: pb Date Rec'd: 03/23/2011 No. Analyzed: Gross Wt.: 4.43 Net Weight:

# Tests: \ 450

Findings:

Date Analyzed: MAY 2 6 2011

City: Boston D.C.U. Police Dept.

Officer: P.O. Diana Lopez

Def:

4.0 Amount:

Subst: TAB

No. Cont: 1 Cont: pb

Date Rec'd: 03/23/2011

No. Analyzed:

Gross Wt.:

3

2.54

Net Weight:

# Tests: \

Findings:

# DRUG POWDER ANALYSIS FORM

SAMPLE # AG	EVIDENCY BOSTON ANALYS	st HLI & ASC
PHYSICAL DESCRIPTION:		): 0.2204
Top poly cultone plander 508.	b containing Gross Will when Substance, Pkg. Wood Net World Net Wo	
Training al Heurs LL	eshi	
PRELIMINARY TESTS Spot Tests	Microcrystalline	<u>Tests</u>
Cobalt Thiocyanate $(+)$ + (better)	Gold Chloride +	· ·
Marquis	TLTA (-) +	
Froehde's	OTHER TEST	<u>\$</u>
Mecke's		
PRELIMINARY TEST RESULTS	GC/MS CONFIRMATO	DRY TEST
RESULTS Gaine	RESULTS toco	ine
DATE <u>5/23/2011</u>	MS OPERATOR <u>DCS</u> DATE 5-26-	

# DRUG POWDER ANALYSIS FORM

SAMPLE # AGENCY, 1	Boston ANALYST HU & ASS
No. of samples tested:	Evidence Wt. OK.
PHYSICAL DESCRIPTION:	Gross Wt (/6):
16 round of	Gross Wt ( ):
40blets impri	
on both side	
622	(1) 0.1800
(833) (TEV	(1) D. 1800  [Micromedex: Clongzapa,  1 Mug
	am /
	~~~
	(A+Q)+
Training wil HLL	
PRELIMINARY TESTS Spot Tests	Microcrystalline Tests
Cobalt Thiocyanate ( )	Gold Chloride
Marquis	TLTA ()
Froehde's	OTHER TESTS
Mecke's	S
	Mnomedex A+L (9)
PRELIMINARY TEST RESULTS	GC/MS CONFIRMATORY TEST
RESULTS Clona zeponn.	RESULTS Clongregon
DATE 5/23/2011	MS OPERATOR DCS
1700	DATE 5-26-11

### POISINDEX® Product List

### Clonazepam

Regulatory-Status:

Schedule IV

Ingredients

Active-Ingredient:

Clonazepam - 1 MG

Excipients:

Lactose (Monohydrate) Magnesium Stearate Cellulose, Microcrystalline

Povidone

Water, Purified Starch, Corn

D&C Yellow No. 10 Aluminum Lake FD&C Blue No. 1 Aluminum Lake

## **Availability & Manufacturing**

Availability:

**United States** 

Available-Container-

Sizes:

Bottle of 100; Bottle of 1000; Bottle of 500

Contact:

Teva Pharmaceuticals

Product ID:

7150694

AAPCC Code:

007000 - Benzodiazepines

Registry Numbers:

NDC 00093-0833-93 NDC 00093-0833-10 NDC 00093-0833-05 NDC 00093-0833-01

### **Physical Description**

Imprints:

833 - This tablet is debossed with 833 above the scored line and TEVA on the

unscored side

TEVA

Form:

Oral Tablet

Color:

Green

Shape:

Circle

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# DRUG POWDER ANALYSIS FORM

SAMPLE # AGENCY	Boston Analyst HU 1 480
No. of samples tested:	Evidence Wt. O/C
PHYSICAL DESCRIPTION:  4 Green round  toblets in cell  Toblets are  on both side  (833) (TEVA)	maprinted Not Wt: (4) 0.6772
PRELIMINARY TESTS Spot Tests	Microcrystalline Tests
Cobalt Thiocyanate ( )	Gold Chloride
Marquis	TLTA ( )
Froehde's	OTHER TESTS
Mecke's	Musmed ex A++(7)
PRELIMINARY TEST RESULTS	GC/MS CONFIRMATORY TEST
RESULTS Congregam	RESULTS clongrepon
DATE 5/23/2011	MS OPERATOR <u>OUS</u>
	DATE 05-26-11

# **POISINDEX® Product List**

### Clonazepam

Regulatory-Status:

Schedule IV

Ingredients

Active-Ingredient:

Clonazepam - 1 MG

Excipients:

Lactose (Monohydrate) Magnesium Stearate

Cellulose, Microcrystalline

Povidone Water, Purified Starch, Corn

D&C Yellow No. 10 Aluminum Lake FD&C Blue No. 1 Aluminum Lake

Availability & Manufacturing

Availability:

**United States** 

Available-Container-

Sizes:

Bottle of 100; Bottle of 1000; Bottle of 500

Contact:

Teva Pharmaceuticals

Product ID:

7150694

AAPCC Code:

007000 - Benzodiazepines

Registry Numbers:

NDC 00093-0833-93 NDC 00093-0833-10 NDC 00093-0833-05 NDC 00093-0833-01

**Physical Description** 

Imprints:

833 - This tablet is debossed with 833 above the scored line and TEVA on the

unscored side

TEVA

Form:

Oral Tablet

Color:

Green

Shape:

Circle

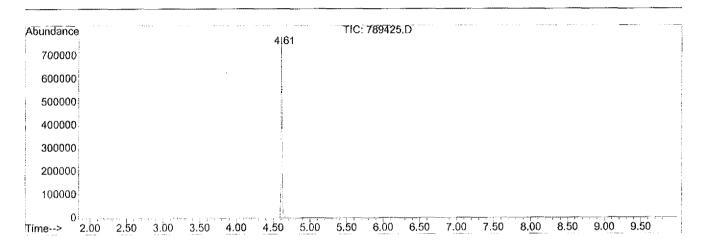
© 1974- 2011 Thomson Reuters. All rights reserved.

File Name : D:\SYSTEM4\05\_24\_11\789425.D

: DCS Operator

Date Acquired : 24 May 2011 17:43 Sample Name : COCAINE STANDARD Submitted by :

Vial Number : 25 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.609	713610	100.00	100.00

File Name : D:\SYSTEM4\05 24 11\789425.D

Operator : DCS

Date Acquired : 24 May 2011 17:43
Sample Name : COCAINE STANDARD

Submitted by :

Vial Number : 25 AcquisitionMeth: DRUGS Integrator : RTE

Search Libraries: C:\DATABASE\SLI Minimum Quality: 90

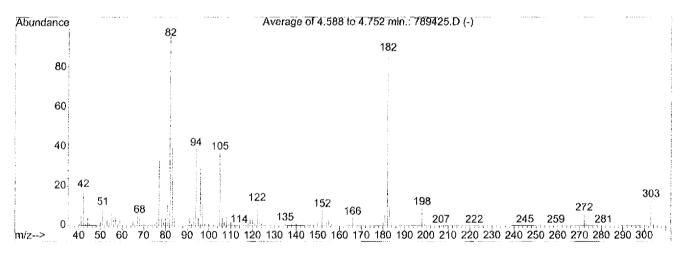
C:\DATABASE\PMW TOX2.L . Minimum Quality: 90

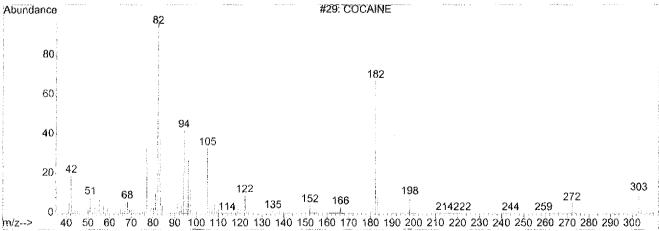
C:\DATABASE\NIST98.L

PK# RT Library/ID CAS# Qual

1 4.61 C:\DATABASE\SLI.L

COCAINE 000050-36-2 99





789425.D

Fri Nov 18 10:16:04 2011

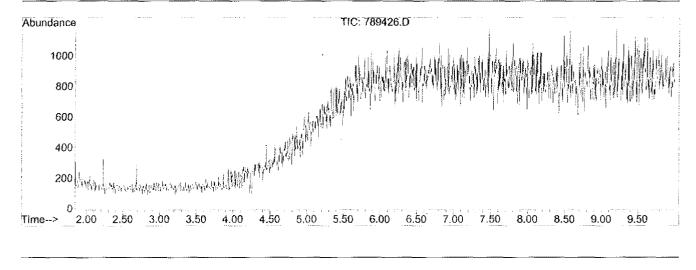
Information from Data File:

File Name : D:\SYSTEM4\05\_24\_11\789426.D

Operator : DCS

Date Acquired : 24 May 2011 17:56

Sample Name : BLANK Submitted by : ASD Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

Information from Data File:

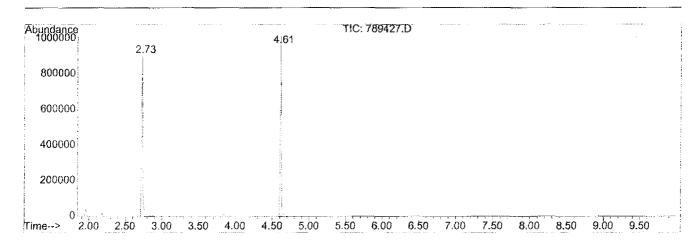
File Name : D:\SYSTEM4\05 24 11\789427.D

Operator : DCS

Date Acquired : 24 May 2011 18:10

Sample Name :

Submitted by : ASD
Vial Number : 27
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
2.732 4.610		52.45 47.55	100.00 90.66	

File Name : D:\SYSTEM4\05 24 11\789427.D

Operator : DCS

Date Acquired : 24 May 2011 18:10

Sample Name :

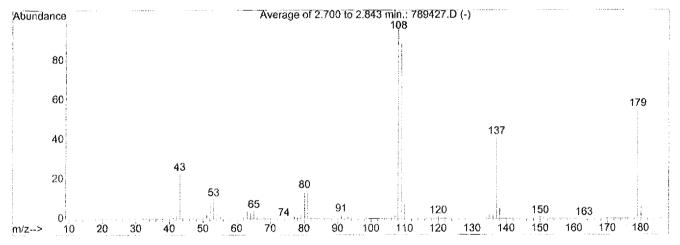
Submitted by : ASD
Vial Number : 27
AcquisitionMeth: DRUGS
Integrator : RTE

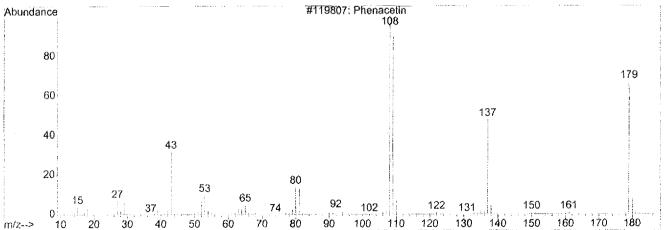
Search Libraries: C:\DATABASE\SLI Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	2.73	C:\DATABASE\NIST98.L Phenacetin Phenacetin Phenacetin	000062-44-2 000062-44-2 000062-44-2	98 97 97





789427.D

Fri Nov 18 10:16:45 2011

Page 2

File Name : D:\SYSTEM4\05 24 11\789427.D

Operator : DCS

Date Acquired : 24 May 2011 18:10

Sample Name :

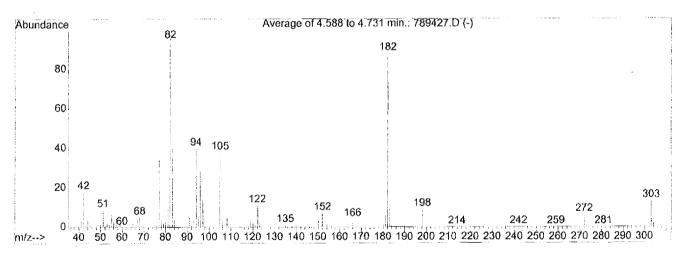
Submitted by : ASD
Vial Number : 27
AcquisitionMeth: DRUGS
Integrator : RTE

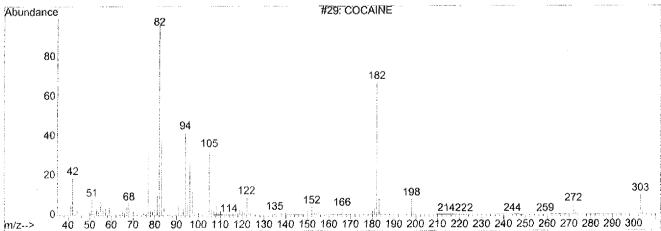
Search Libraries: C:\DATABASE\SLI Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
2	4.61	C:\DATABASE\SLI.L COCAINE	000050-36-2	99





789427.D

Fri Nov 18 10:16:46 2011

Information from Data File:

File Name : D:\SYSTEM4\05 24 11\789428.D

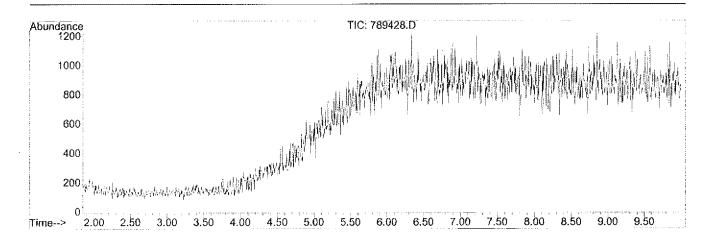
Operator : DCS

Date Acquired : 24 May 2011 18:23

Sample Name : BLANK

Submitted by :

Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

Information from Data File:

File Name :  $D:\SYSTEM4\05_24_11\789429.D$ 

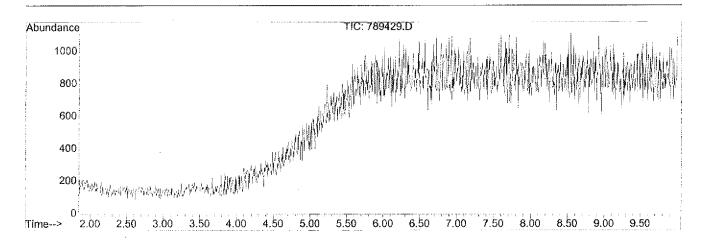
Operator : DCS

Date Acquired : 24 May 2011 18:37

Sample Name : BLANK

Submitted by :

Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

Information from Data File:

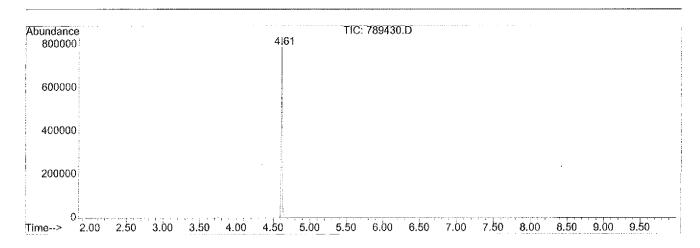
File Name : D:\SYSTEM4\05\_24\_11\789430.D

Operator : DCS

Date Acquired : 24 May 2011 18:50 Sample Name : COCAINE STANDARD

Submitted by

Vial Number 30 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.610	740551	100.00	100.00

789430.D

File Name

: D:\SYSTEM4\05 24\_11\789430.D

Operator

: DCS

Date Acquired

: 24 May 2011 18:50 COCAINE STANDARD

Sample Name Submitted by

Vial Number

30 : AcquisitionMeth: DRUGS

Integrator

PK#

: RTE

Search Libraries:

RT

C:\DATABASE\SLI

Minimum Quality: 90

Library/ID

C:\DATABASE\PMW TOX2.L

Minimum Quality: 90

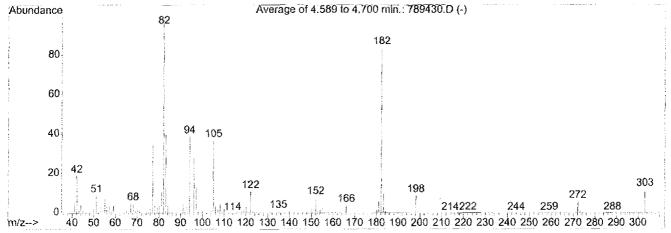
CAS#

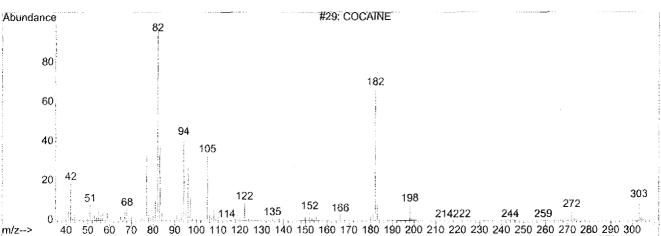
C:\DATABASE\NIST98.L

4.61 C:\DATABASE\SLI.L 1 COCAINE

000050-36-2 99

Qual





789430.D

Fri Nov 18 10:17:00 2011

Information from Data File:

File Name : D:\SYSTEM4\05\_24\_11\789441.D

Operator : DCS

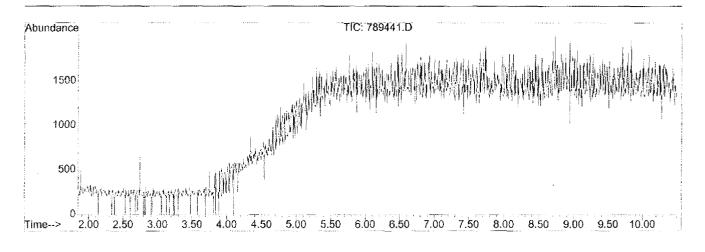
Date Acquired : 24 May 2011 22:55

Sample Name : BLANK

Submitted by :

Vial Number : 1

AcquisitionMeth: CLONAZ Integrator : RTE



Ret. Time Area Area % Ratio %

Information from Data File:

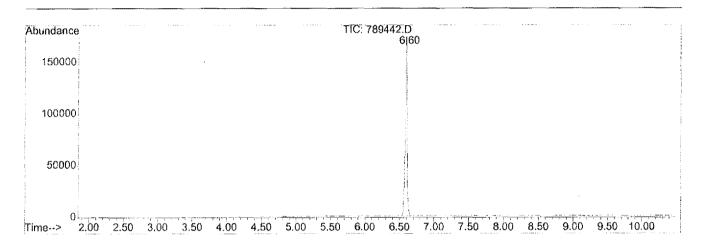
File Name : D:\SYSTEM4\05 24 11\789442.D

Operator : DCS

Date Acquired : 24 May 2011 23:09 Sample Name : CLONAZEPAM STANDARD

Submitted by :

Vial Number : 42 AcquisitionMeth: CLONAZ Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.595	320949	100.00	100.00

File Name

: D:\SYSTEM4\05 24 11\789442.D

Operator

: DCS

Date Acquired Sample Name

24 May 2011 23:09

CLONAZEPAM STANDARD

Submitted by Vial Number

42

AcquisitionMeth: CLONAZ Integrator

: RTE

Search Libraries:

C:\DATABASE\SLI

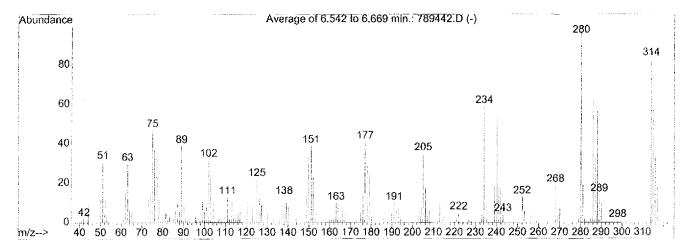
Minimum Quality: 90

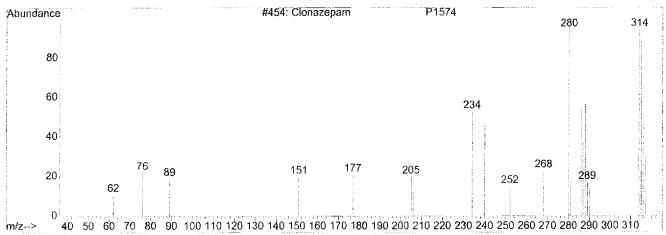
C:\DATABASE\PMW TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
 1	6.60	C:\DATABASE\PMW TOX2.L		
		Clonazepam	001622-61-3	99
		Clorazepate-M/artifact AC	000000-00-0	9
		Estradiol 2AC	003434-88-6	1





789442.D

Fri Nov 18 10:18:01 2011

Information from Data File:

File Name : D:\SYSTEM4\05 24 11\789443.D

Operator : DCS

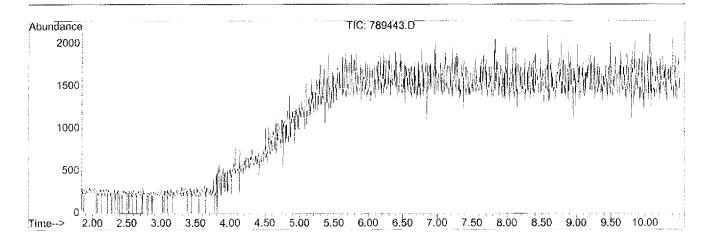
Date Acquired : 24 May 2011 23:23

Sample Name : BLANK

Submitted by :

Vial Number :

AcquisitionMeth: CLONAZ Integrator : RTE



Ret. Time

Area

Area 8

Ratio %

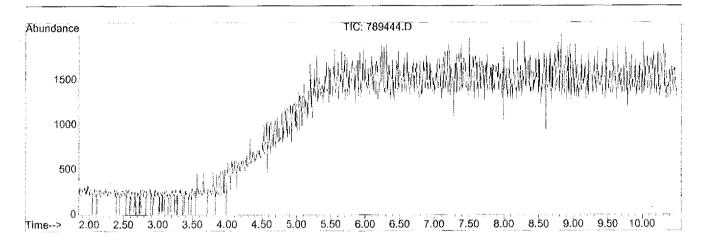
File Name : D:\SYSTEM4\05 24 11\789444.D

Operator : DCS

Date Acquired : 24 May 2011 23:37

Sample Name : BLANK Submitted by : ASD Vial Number : 1

AcquisitionMeth: CLONAZ Integrator : RTE



Ret. Time Area Area % Ratio %

<sup>\*\*\*</sup>NO INTEGRATED PEAKS\*\*\*

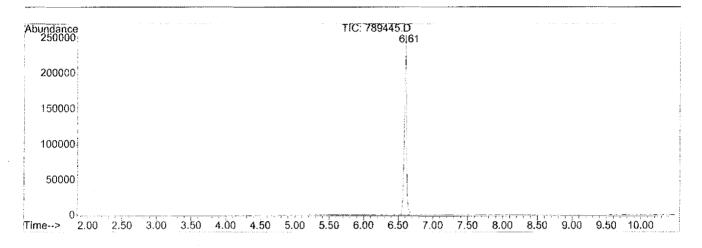
File Name : D:\SYSTEM4\05\_24\_11\789445.D

Operator : DCS

Date Acquired : 24 May 2011 23:51

Sample Name :

Submitted by : ASD
Vial Number : 45
AcquisitionMeth: CLONAZ
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.606	535662	100.00	100.00

File Name : D:\SYSTEM4\05\_24\_11\789445.D

Operator : DCS

Date Acquired : 24 May 2011 23:51

Sample Name :

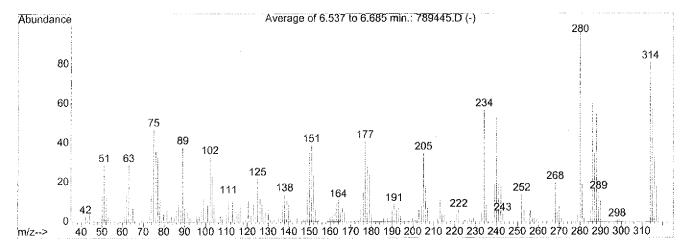
Submitted by : ASD
Vial Number : 45
AcquisitionMeth: CLONAZ
Integrator : RTE

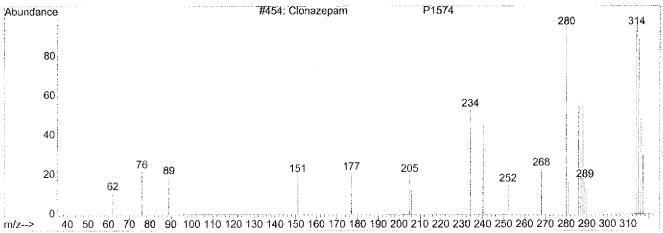
Search Libraries: C:\DATABASE\SLI Minimum Quality: 90

C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	6.61	C:\DATABASE\PMW_TOX2.L Clonazepam Clorazepate-M/artifact AC Terfenadine AC	001622-61-3 000000-00-0 000000-00-0	99 9 9





789445.D

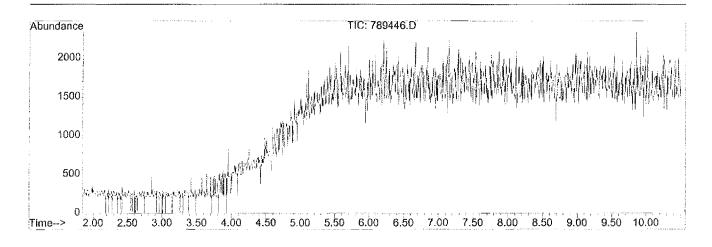
Fri Nov 18 10:18:13 2011

File Name : D:\SYSTEM4\05 24 11\789446.D

Operator : DCS

Date Acquired : 25 May 2011 00:05

Sample Name : BLANK Submitted by : ASD Vial Number : 1 AcquisitionMeth: CLONAZ Integrator : RTE



Ret. Time Area Area % Ratio %

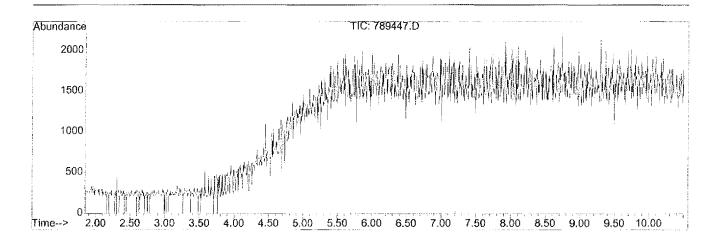
<sup>\*\*\*</sup>NO INTEGRATED PEAKS\*\*\*

File Name : D:\SYSTEM4\05\_24\_11\789447.D

Operator : DCS

Date Acquired : 25 May 2011 00:19

Sample Name : BLANK Submitted by : ASD Vial Number : 1 AcquisitionMeth: CLONAZ Integrator : RTE



Ret. Time Area Area % Ratio %

Information from Data File:

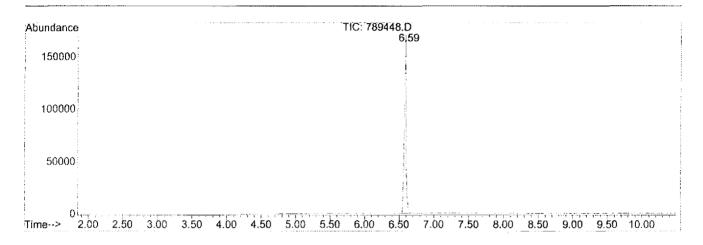
File Name : D:\SYSTEM4\05\_24\_11\789448.D

Operator : DCS

Date Acquired : 25 May 2011 00:33

Sample Name :

Submitted by : ASD
Vial Number : 48
AcquisitionMeth: CLONAZ
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.588	310063	100.00	100.00

File Name : D:\SYSTEM4\05 24 11\789448.D

Operator : DCS

Date Acquired : 25 May 2011 00:33

Sample Name :

Submitted by : ASD
Vial Number : 48
AcquisitionMeth: CLONAZ
Integrator : RTE

Search Libraries: C:\DATABASE\SLI

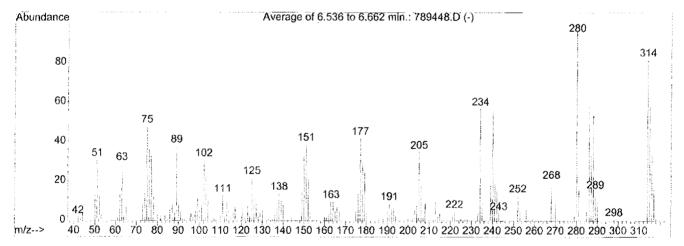
Minimum Quality: 90

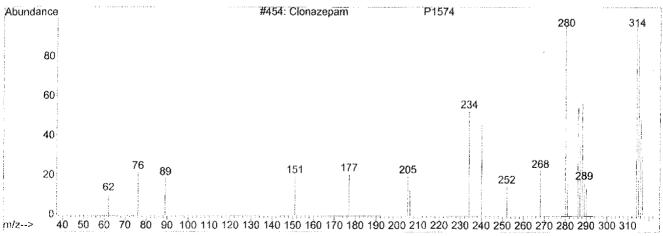
C:\DATABASE\PMW\_TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	6.59	C:\DATABASE\PMW_TOX2.L Clonazepam	001622-61-3	99
		Clorazepate-M/artifact AC Terfenadine AC	***************************************	9





789448.D

Fri Nov 18 10:18:23 2011

Information from Data File:

File Name : D:\SYSTEM4\05\_24\_11\789456.D

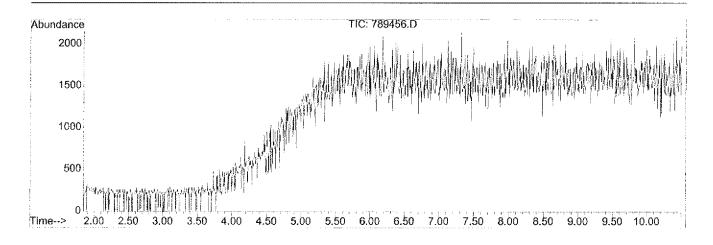
Operator : DCS

Date Acquired : 25 May 2011 2:24

Sample Name : BLANK

Submitted by :

Vial Number : 2 AcquisitionMeth: CLONAZ Integrator : RTE



Ret. Time Area Area % Ratio %

Information from Data File:

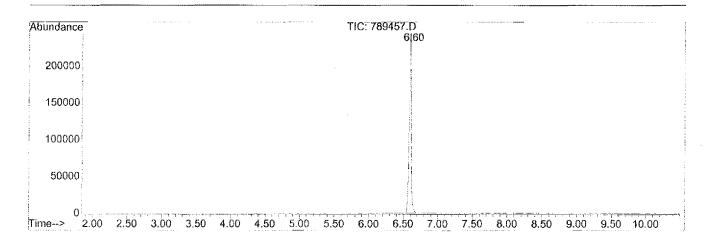
File Name : D:\SYSTEM4\05\_24\_11\789457.D

Operator : DCS

Date Acquired : 25 May 2011 2:38 Sample Name : CLONAZEPAM STANDARD

Submitted by :

Vial Number : 42 AcquisitionMeth: CLONAZ Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.598	461935	100.00	100.00

File Name : D:\SYSTEM4\05 24 11\789457.D

Operator : DCS

Date Acquired : 25 May 2011 2:38 Sample Name : CLONAZEPAM STANDARD

Submitted by :

Vial Number : 42 AcquisitionMeth: CLONAZ Integrator : RTE

Search Libraries: C:\DATABASE\SLI

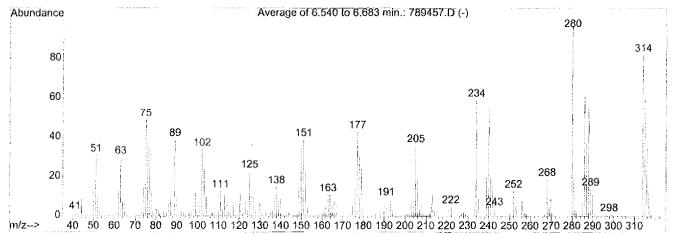
Minimum Quality: 90

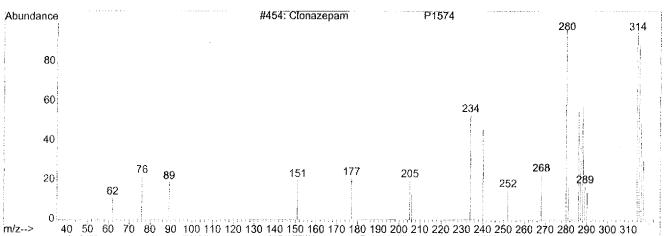
C:\DATABASE\PMW\_TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	6.60	C:\DATABASE\PMW_TOX2.L Clonazepam Clorazepate-M/artifact AC Terfenadine AC	001622-61-3 000000-00-0 000000-00-0	98 9 7





789457.D

Fri Nov 18 10:18:36 2011